

Please add the following new claims:

--28. A cosmetic for regulation of cytokine production, induction of nitrogen monoxide production, or anti-allergy, characterized in that the cosmetic comprises as an effective ingredient a fucoidan derived from *Kjellmaniella crassifolia* and/or a degradation product thereof.

29. The cosmetic according to claim 28, wherein the cytokine is an interleukin or an interferon.

h1 30. The cosmetic according to claim 29, wherein the interferon is interferon- γ .

31. The cosmetic according to claim 29, wherein the interleukin is interleukin-12.

32. The cosmetic according to claim 28, wherein the cosmetic for anti-allergy is a cosmetic for suppression of IgE production.

33. A method of treating or preventing a disease requiring regulation of cytokine production, a disease requiring nitrogen monoxide production, or an allergic disease, wherein the method comprises administering a fucoidan derived from *Kjellmaniella crassifolia* and/or a degradation product thereof.

34. The method according to claim 33, wherein the cytokine is an interleukin or an interferon.

M 35. The method according to claim 34, wherein the interferon is interferon- γ .

36. The method according to claim 34, wherein the interleukin is interleukin-12.


37. The method according to claim 33, wherein the allergic disease is a disease requiring suppression of IgE production.

38. The method according to claim 33, wherein the fucoidan and/or a degradation product thereof are orally administered.

39. A method for regulating cytokine production, inducing nitrogen monoxide production, suppressing allergy, or suppressing IgE production, wherein a fucoidan derived from *Kjellmaniella crassifolia* and/or a degradation product thereof is used as an effective ingredient.

40. The method according to claim 39, wherein the cytokine is an interleukin or an interferon.

41. The method according to claim 40, wherein the interferon is interferon- γ .



42. The method according to claim 40, wherein the interleukin is interleukin-12.

43. The method according to claim 39, wherein a food, drink or feed containing the fucoidan and/or a degradation product thereof as an effective ingredient is used.

44. The method according to claim 39, wherein a cosmetic containing the fucoidan and/or a degradation product thereof as an effective ingredient is used.

45. A cosmetic which comprises an effective amount of a fucoidan derived from *Kjellmaniella crassifolia* and/or a degradation product thereof, said cosmetic being present in an effective amount for regulation of cytokine production, induction of nitrogen monoxide production, or anti-allergy.

46. The cosmetic according to claim 45, wherein the daily adult dose of the effective ingredient is from 0.1 to 2000mg/kg.

47. The cosmetic according to claim 45, wherein the effective ingredient is present in an amount from 0.0001 to 10% by weight.

48. A cosmetic composition comprising 0.001 to 20% by weight of a fucoidan derived from *Kjellmaniella crassifolia* and/or a degradation product thereof.

49. A method of treating or preventing a disease requiring regulation of cytokine production, a disease requiring nitrogen monoxide production, or an allergic disease, which comprises administering an effective amount of the cosmetic composition of

claim 45 to a subject in need thereof for treating or preventing a disease requiring regulation of cytokine production, a disease requiring nitrogen monoxide production, or an allergic disease.

50. A method for regulating cytokine production, inducing nitrogen monoxide production, suppressing allergy, or suppressing IgE production, which comprises administering an effective amount of the cosmetic composition of claim 45 to a subject in need thereof for regulating cytokine production, inducing nitrogen monoxide production, suppressing allergy, or suppressing IgE production.

51. A method of treating or preventing a disease requiring regulation of cytokine production, a disease requiring nitrogen monoxide production, or an allergic disease, which comprises administering an effective amount of the cosmetic composition of claim 48 to a subject in need thereof for treating or preventing a disease requiring regulation of cytokine production, a disease requiring nitrogen monoxide production, or an allergic disease.